AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the above-identified application.

Listing of Claims:

1. (Currently Amended) A dual diversity receiver that includes first and second

antennas to receive first and second radio signals, wherein the first and second antennas produce

first and second antenna signals that are representative of the received radio signals, the receiver

comprising:

a first LNA that receives the first antenna signal and produces a first amplified signal;

a second LNAs that receives the second antenna signal and produces a second amplified

signal; and

selection logic to-determine which of the first and second amplified signals has a greater

received power characteristic, continuously perform monitoring of a signal characteristic of said

first and said second amplified signals, and to-select one of the first LNA and the second LNA

based upon said monitoring associated with that amplified signal so that its output is processed

by the receiver; wherein said monitoring is performed so as to maintain both phase and

amplitude of said output.

2. (Currently Amended) The receiver of claim 1, wherein the first and second LNAs

further comprise first and second bias generator circuits that control the operation of their

respective LNA based on a selection signal.

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3. (Currently Amended) The receiver of claim 1, wherein the selection logic comprises

logic to measure the received power characteristic. said selection logic is operative to switch

between said first and said second LNA when the currently selected signal fades below a

selected threshold.

4. (Currently Amended) The receiver of claim 1, wherein the selection logic comprises

logic to select the alternate LNA when its received power characteristic exceeds that of the

selected LNA. said selection logic is operative to switch between said first and said second LNA

when the elapsed time receiving the current signal exceeds the time coherence of the wireless

channel.

5. (Currently Amended) A method for operating a dual diversity receiver that includes

two antennas to receive a radio signal, wherein each antenna produces an antenna signal that is

representative of the radio signal, the method comprising the steps of:

inputting the antenna signal from each antenna to a corresponding LNA that produces an

amplified signal;

determining which amplified antenna signal has a greater received power signal

characteristic; wherein said determining is performed so as to maintain both phase and

amplitude of said amplified signals;

activating the LNA associated with the antenna signal having the greater received power

signal characteristic, so that the amplified antenna signal from the activated LNA is processed

by the receiver; and

repeating the steps of determining and selecting.

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6. (Currently Amended) The method of claim 5, further comprising using a digital filter

to measure the received power said signal characteristics.

7. (New) The method of claim 6 wherein said digital filter is an IIR filter configured to

perform a channel estimate.

8. (New) The receiver of claim 1 wherein said selection logic comprises a switching

apparatus integrated within said first and said second LNAs; wherein said switching apparatus is

operative to switch said output from said first and said second LNAs.

9. (New) The receiver of claim 8 wherein said switching apparatus is positioned in the

signal path after said first and said second LNAs.

10. (New) A dual diversity receiver system comprising:

a first antenna to receive a radio signal and produce a first antenna signal;

a second antenna spatially separated from said first antenna to receive said radio signal

and produce a second antenna signal;

a first LNA to receive said first antenna signal and produce a first amplified signal;

a second LNA to receive said second antenna signal and produce a second amplified

signal; and

selection logic to select one of the first LNA and second LNA based upon comparison of

a first measured value of a signal characteristic of said first amplified signal and a second

measured value of said signal characteristic of said second amplified signal; wherein said signal

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characteristic of said first and said second amplified signals is measured so as to maintain both

phase and amplitude of said amplified signal.

11. (New) The receiver of claim 10 wherein said signal characteristic is a signal power

level.

12. (New) The receiver of claim 11 wherein said selection logic is operative to switch

between said first and said second LNA when said signal power level falls below a selected

threshold.

13. (New) The receiver of claim 10 wherein said selection logic is operative to switch

between said first and said second LNA when the elapsed time receiving the current signal

exceeds the time coherence of the wireless channel.

14. (New) The receiver of claim 10 wherein said selection logic comprises a switching

apparatus integrated within said first and said second LNAs.

15. (New) The receiver of claim 10 wherein said switching apparatus is positioned in

the signal path after said first and said second LNAs.

16. (New) The receiver of claim 10, further comprising using a digital filter to measure

said signal characteristic.

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17. (New) The receiver of claim 16 wherein said digital filter is an IIR filter configured to perform a channel estimate.